

## WHAT IS CLAIMED IS:

1. An electronic device with storable earphone, comprising:
  - a first casing, at one side having an exit of an earphone strap;
  - a coiler, being disposed in said first casing and having a motor and a gear on said motor;
  - a support panel and a bottom panel, being disposed on both ends of said coiler respectively;
  - a coiling rod, with both ends being pivotally coupled to said support panel and said bottom panel respectively, and said coiling rod at one end having a second gear engaged with said gear and a first gear, such that when said gear being rotated, said coiling rod and said guiding axle being rotated accordingly;
  - a guider, with one end disposed on said guiding axle, and the other end having at least a through hole;
  - an earphone strap, being extended out of the body of said coiling rod and passing through a through hole on another end of said guider to the outside of the exit of said first casing;
  - a second casing, being coupled with said first casing for storing said earphone of the electronic device, and having a control switch for control the entire operation of said coiler.
- 20 2. The electronic device with storable earphone of claim 1, wherein said coiling rod at its body comprises at least one through hole, and said earphone strap has an earphone conductive wire inside said earphone strap, thereby said earphone conductive wire passes through a hole base on said bottom panel into said coiling rod, and then passes from said through hole out of the rod body, and the section of said conductive wire passing outside the rod body is wrapped with said earphone strap.
- 25 3. The electronic device with storable earphone of claim 1, wherein said guider at one end comprises a covering ring for covering said guiding axle, and said

covering ring comprises a protruded pillar falling precisely into a guiding groove on the surface of said guiding axle to provide a guiding path for evenly tying said earphone strap of the earphone.

4. The electronic device with storable earphone of claim 3, wherein said guider at another edge is disposed on a sliding member in said first casing, and said sliding member slides vertically along a sliding groove, so that when said coiling rod rotates, said guider slides vertically along said guiding axle since the protruded pillar in the covering ring falls into said guiding groove, and said guiding grooves at the top and bottom ends of said guiding axle is designed to bend backward for changing the traveling direction so that said earphone strap follows the guiding grooves at the top and bottom ends of said coiling rod to be wrapped around the periphery of said coiling rod.
5. The electronic device with storable earphone of claim 1, wherein said casing comprises a door panel disposed at the exit of said earphone strap in said casing, and a lock button disposed on said door panel such that when the length of said earphone strap being exposed outside said exit is long enough, said door panel and said lock button are closed and locked respectively at said exit, and a gap is disposed between said door panel and said exit for preventing said door panel from clipping and damaging the conductive wire of said earphone strap, and a trigger is disposed on one side of said exit for being pressed to trigger and force the coiler to terminate its operation when said door panel is closed.
6. The electronic device with storable earphone of claim 1, wherein said earphone strap with the section exposed from the top of said casing comprises a soft bag for storing said earphone, and a buckle to buckle up said soft bag.
7. The electronic device with storable earphone of claim 1, wherein said coiler is disposed in the gap between said casing and a battery pillar on one side of a battery compartment in said casing, and said support panel and said bottom panel are extended outwardly respectively from both ends on one side of said

battery compartment.

8. The electronic device with storable earphone of claim 1, wherein said electronic device is an audio product.